

FIG. 1

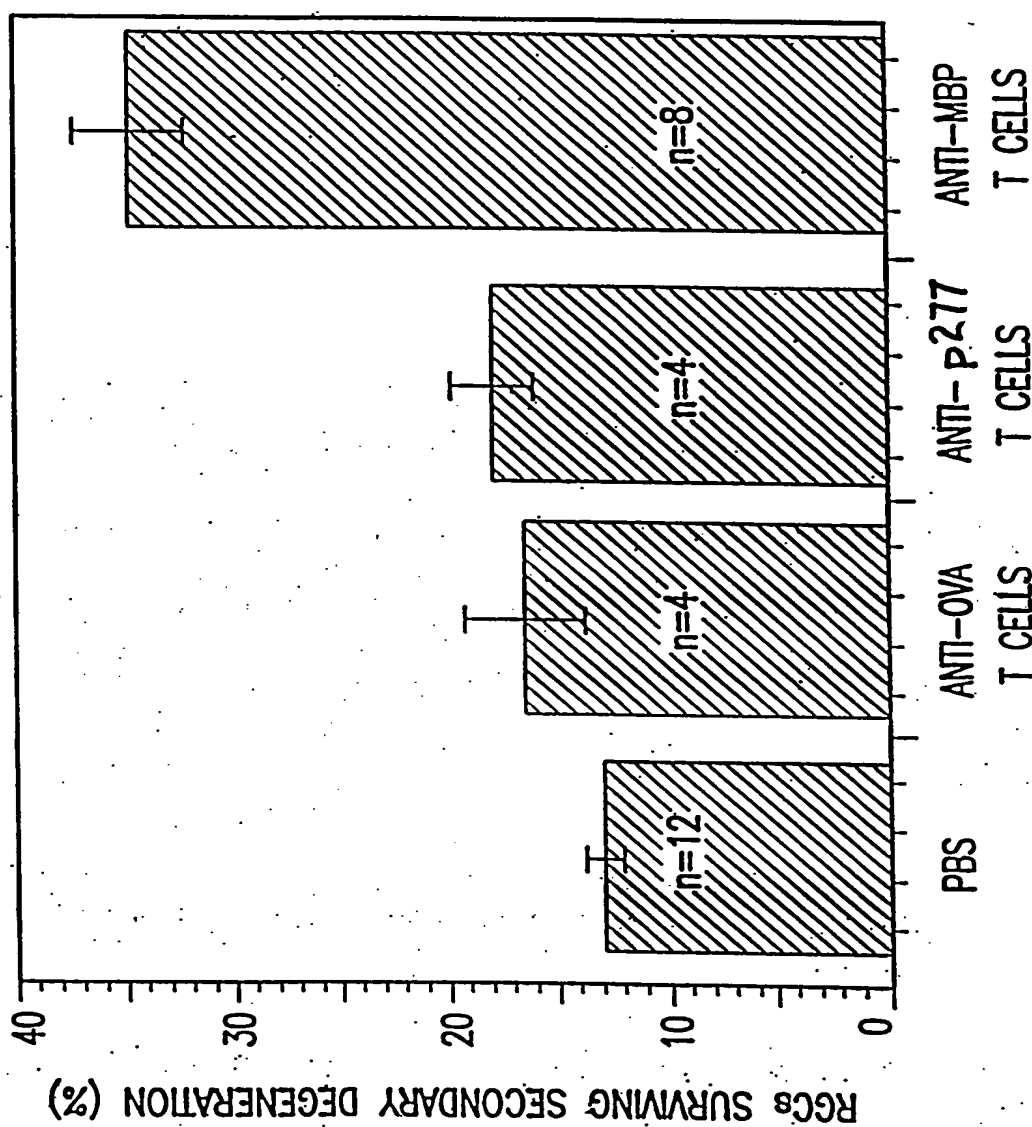
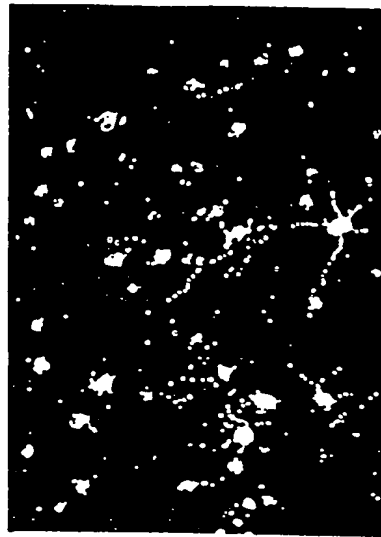


FIG. 2



160 μ m

FIG. 3C

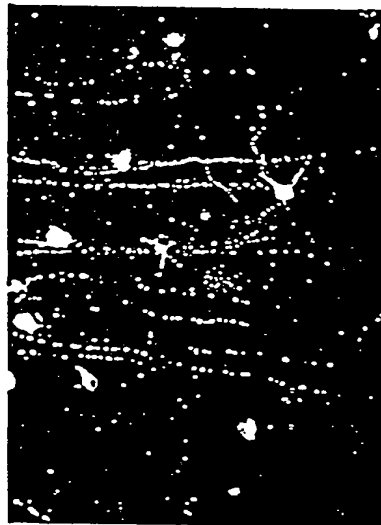


FIG. 3B



FIG. 3A

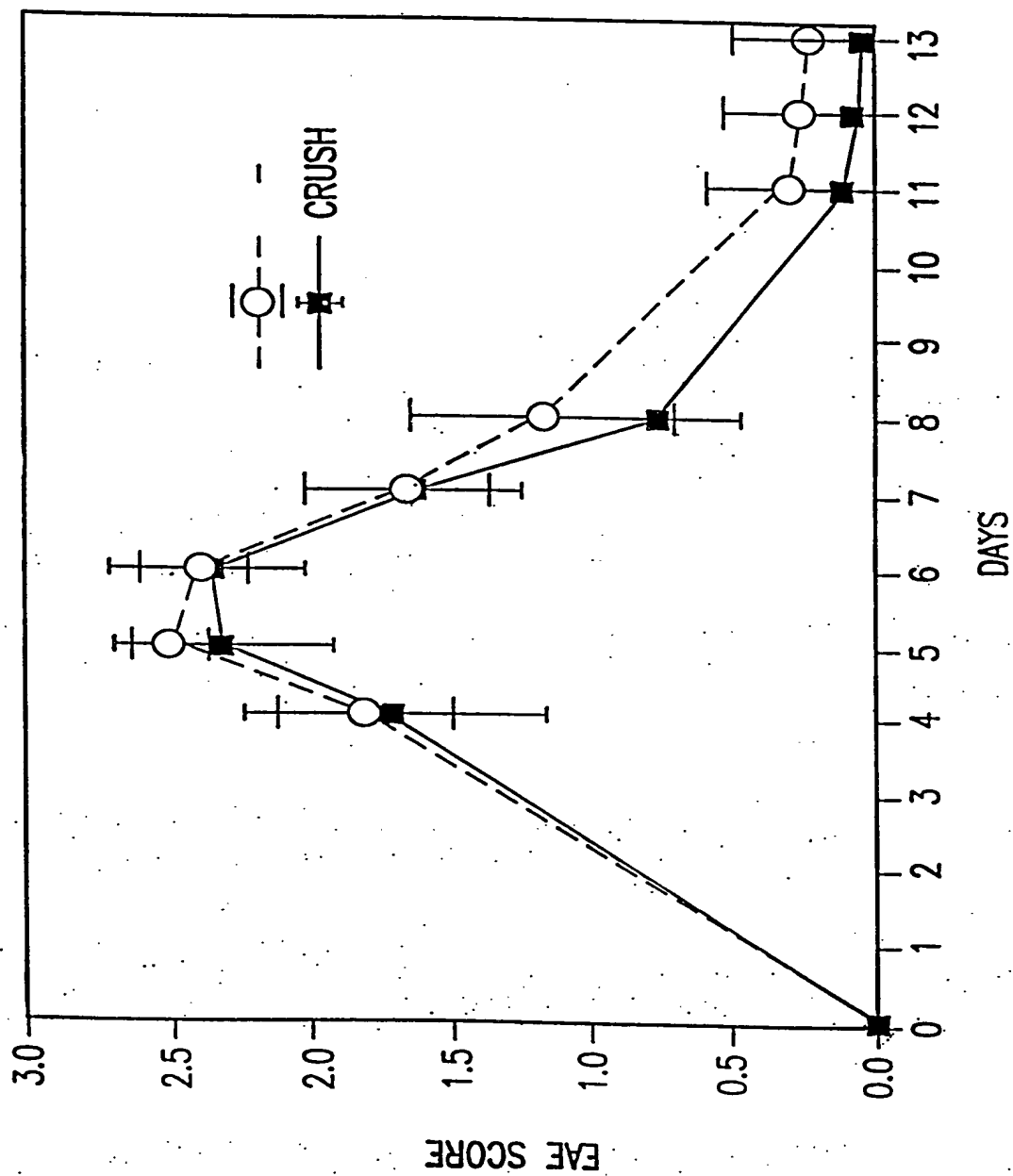


FIG. 4A

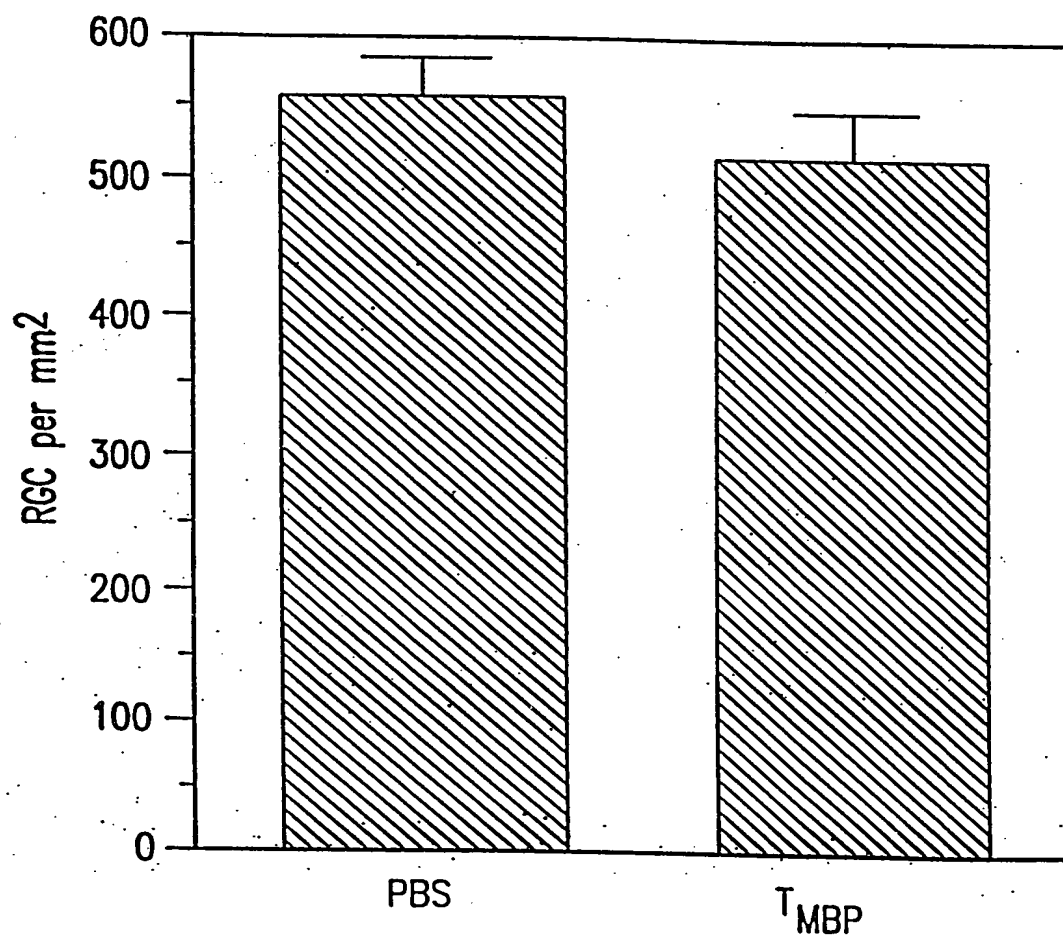


FIG. 4B

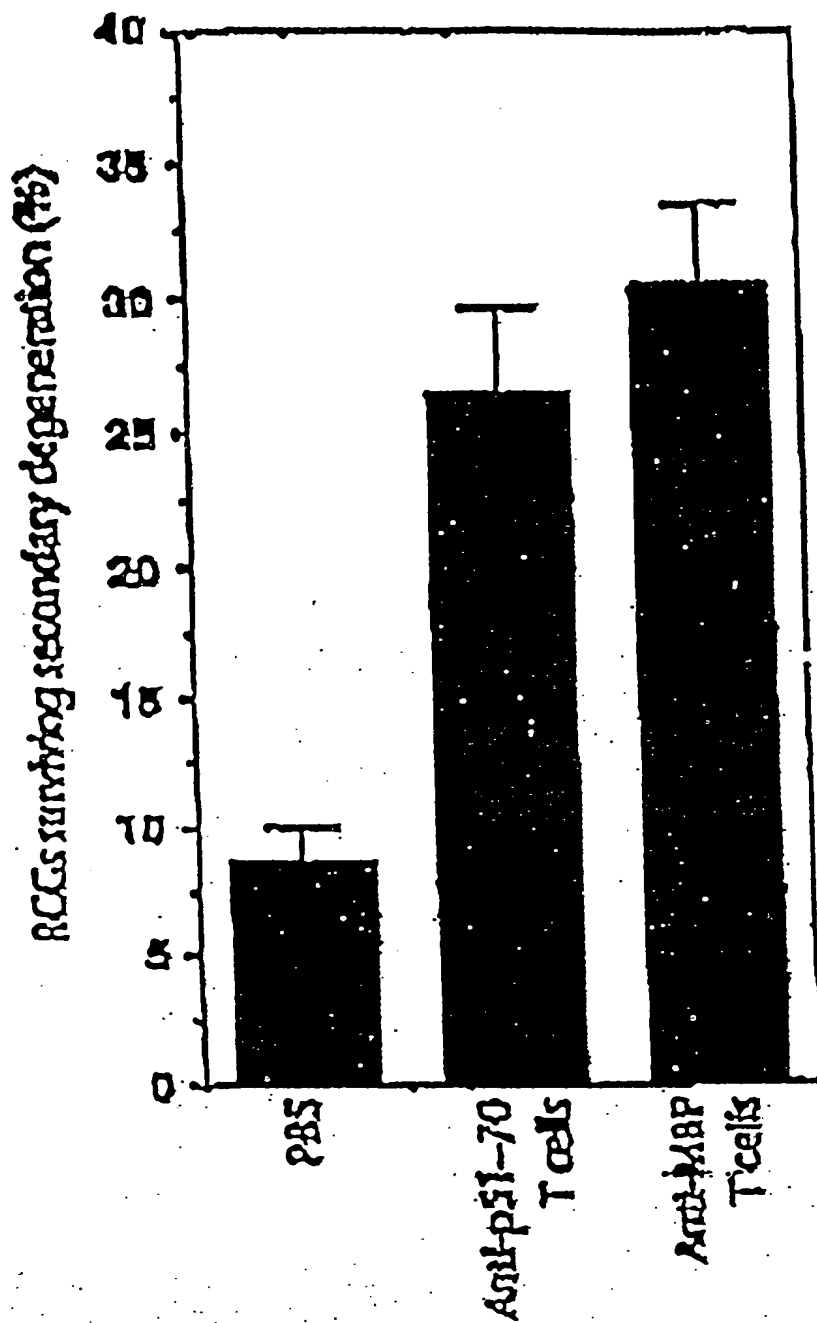


FIG. 5

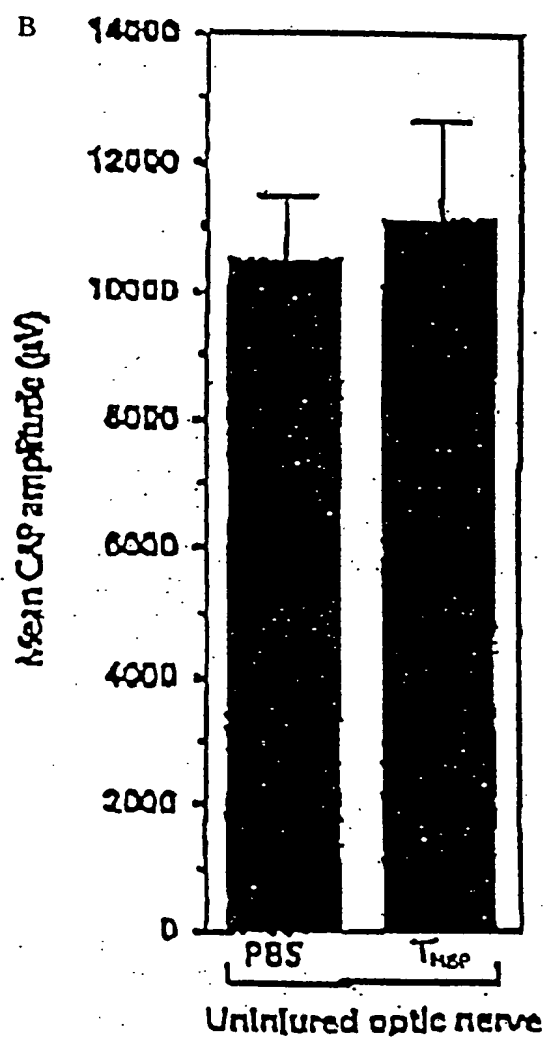
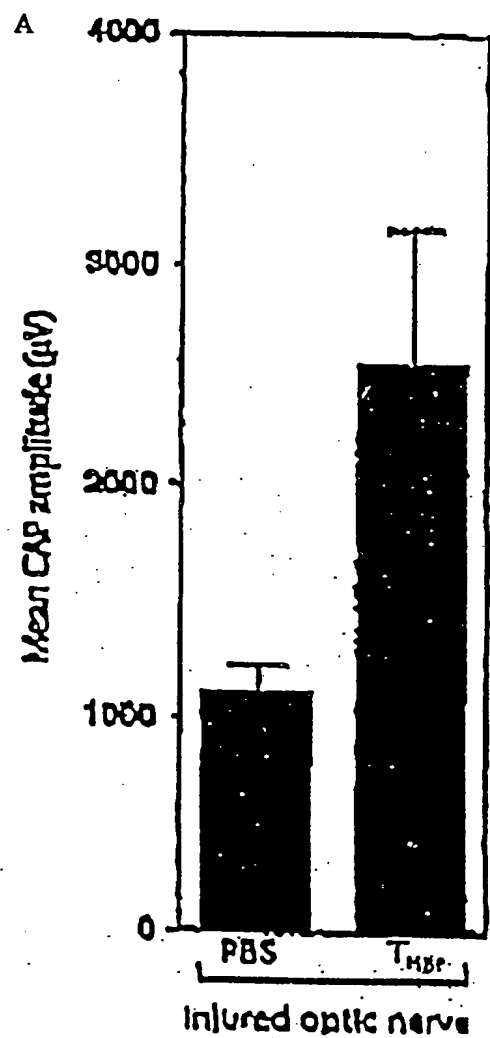


FIG. 6

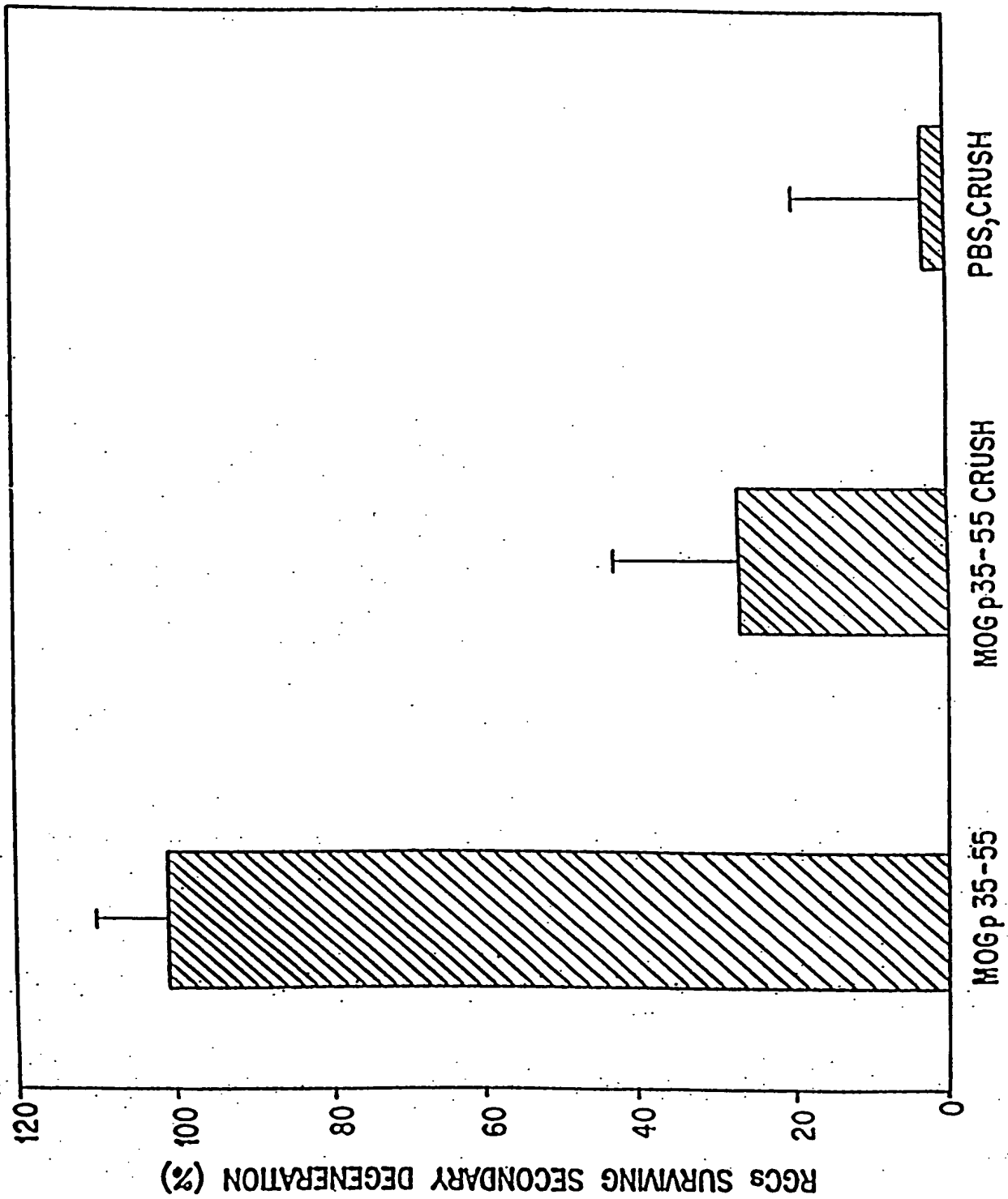


FIG. 7

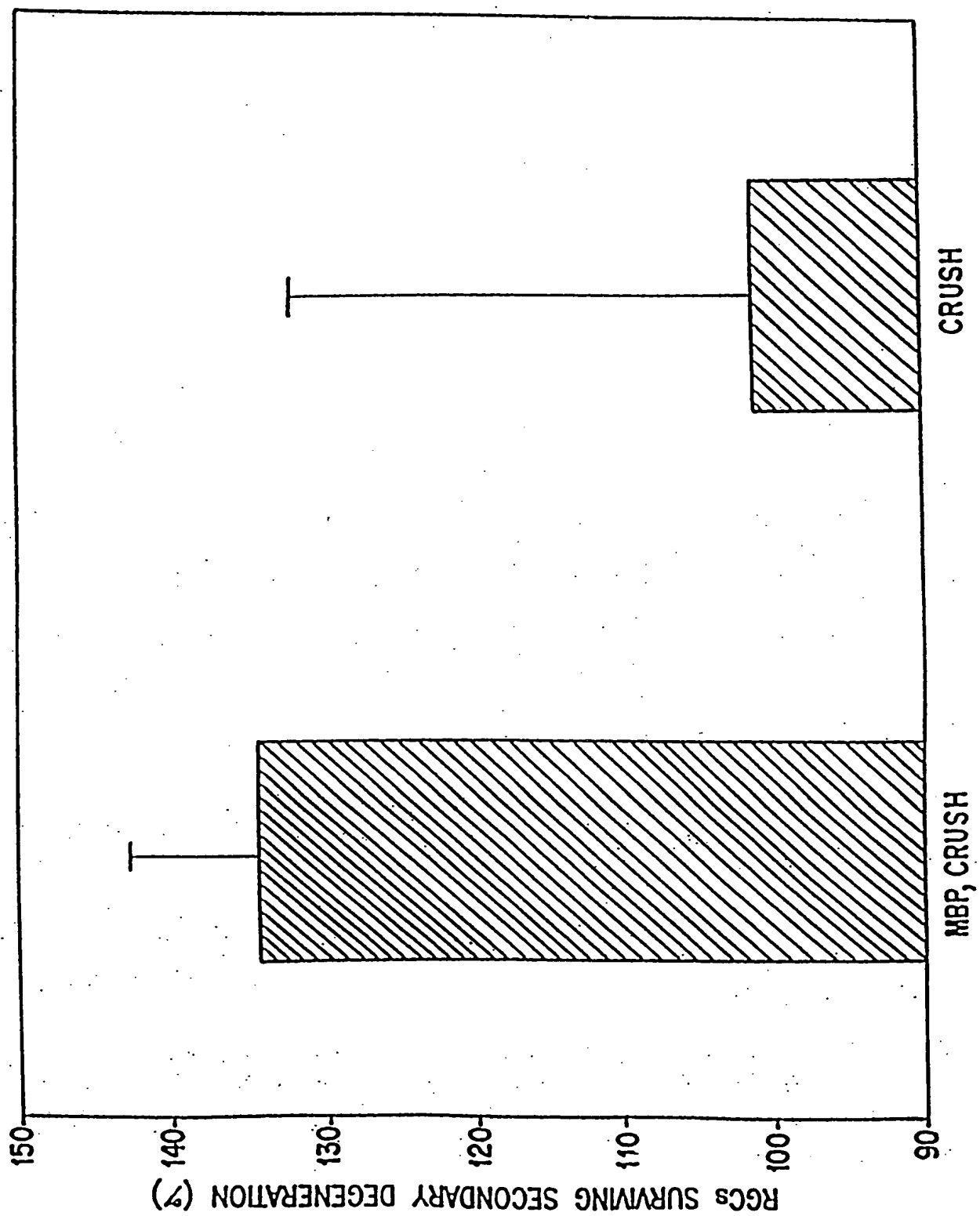


FIG. 8

```
1 ccaagaagat cccacagcag cttccgaagg cctggatgtg atggcatcac agaagagacc
61 ctcacagcga cacggatcca agtacttggc cacagcaagt accatggacc atgcccggca
121 tggcttcctc ccaaggcaca gagacacggg catccttgac tccatcgggc gcttctttag
181 cggtgacagg ggtgcgcccc agcgggggctc tggcaaggac tcacacacaa gaactacca
241 ctacggctcc ctgccccaga agtcgcagag gacccaagat gaaaaccag tagtccactt
301 cttcaagaac attgtgacac ctcgtaacac ccctccatcc caaggaaagg ggagaggcct
361 gtccctcagc agatttagct ggggaggaag agacagccgc tctggatctc ccatggcaag
421 acgctgagag cctccctgct cagccttccc gaatcctgcc ctcggttct taatataact
481 gccttaaacy ttttaattcta cttgcaccaa atagctagtt agagcagacc ctctcttaat
541 cccgtggggc tgtgaacgcg gcggggccagc ccacggcacc ctgactggct aaaactgttt
601 gtcccttttt at
```

FIG. 9

1 gaaaacagtg cagccacctc cgagagcctg gatgtgatgg cgtcacagaa gagaccctcc
61 cagaggcacg gatccaagta cctggccaca gcaagtacca tggaccatgc caggcatggc
121 ttcctcccaa ggcacagaga cacgggcatc cttgactcca tcgggcgctt ctttggcggg
181 gacaggggtg cgccaaagcg gggctctggc aaggactcac accacccggc aagaactgct
241 cactatggct ccctgcccc aaggtcacac ggccggaccc aagatgaaaa ccccgtagtc
301 cacttcttca agaacattgt gacgcctcgc acaccacccc cgtcgcaggg aaaggggaga
361 ggactgtccc tgagcagatt tagctggggg gccgaaggcc agagaccagg atttggctac
421 ggaggcagag cgtccgacta taaatcggct cacaagggat tcaagggagt cgatgccag
481 ggcacgcttt ccaaaatttt taagctggga ggaagagata gtcgctctgg atcacccatg
541 gctagacgct gaaaacccac ctggttccgg aatcctgtcc tcagcttctt aatataactg
601 ccttaaaact ttaatccac ttgcccctgt tacctaatta gagcagatga cccctcccct
661 aatgcctgcg gagtgtgca cgtagtaggg tcaggccacg gcagcctacc ggcaatttcc
721 ggccaacagt taaatgagaa catgaaaaca gaaaacgggt aaaactgtcc ctttctgtgt
781 gaagatcacg ttccttcccc cgcaatgtgc ccccagacgc acgtgggtct tcagggggcc
841 aggtgcacag acgtccctcc acgttcaccc ctccaccctt ggactttctt ttcccggtgg
901 ctccggcacc ttgcgctttt gctggtcact gccatggagg cacacagctg cagagacaga
961 gaggacgtgg gcggcagaga ggactgttga catccaagct tcctttgttt ttttttctg
1021 tccttctctc acctcctaaa gttagacttca ttttccctaa caggattaga cagtcaagga
1081 gtggcttact acatgtggga gctttttggt atgtgacatg cgggctgggc agctgttaga
1141 gtccaacgtg gggcagcaaa gagagggggc cacctcccca ggccgtggct gccacacac
1201 cccaatttag tgaattcgcg tgtggcagag ggaggaaaag gaggcaaacg tgggctgggc
1261 aatggcctca cataggaaac agggctcttc tggagatttg gtgatggaga tgtcaagcag
1321 gtggcctctg gacgtcaccc ttgccctgca tgggtggccc agagcagcct ctatgaacaa
1381 cctcgtttcc aaaccacagc ccacagccgg agagtccagg aagacttgcg cactcagagc
1441 agaagggtag gagtccctca gacagcctcg cagccgcgcc agtcgccccat agacactggc
1501 tgtgaccggg cgtgctggca gcggcagtgc acagtggcca gcactaacc tccctgagaa
1561 gataaccggc tcattcactt cctcccagaa gacgcgtggt agcagtagg cacaggcgtg
1621 cacctgctcc cgaattactc accgagacac acgggctgag cagacggccc ctgtgatgga
1681 gacaaagagc tcttctgacc atatccttct taacaccgcg tggcatctcc tttcgcgcct
1741 cctccctaa cctactgacc caccttttga ttttagcgca cctgtgattg ataggcctc
1801 caaagagtcc cacgctggca tcaccctccc cgaggacgga gatgaggagt agtcagcgtg
1861 atgcaaaaac gcgtcttctt aatccaattc taattctgaa tgtttcgtgt gggcttaata
1921 ccatgtctat taatatatag cctcgatgat gagagagtta caaagaacaa aactccagac
1981 acaaacctcc aaatttttca gcagaagcac tctgcgtcgc tgagctgagg tcggctctgc
2041 gatccatacg tggccgcacc cacacagcac gtgctgtgac gatggctgaa cggaaagtgt
2101 acactgttcc tgaatattga aataaaacaa taaactttt

FIG. 10

A.

1	taatatctag	ggktttgact	ctgacccgtg	ttggggctct	cacttcatgg	cttctcacgc
61	ttgtgctgca	tatcccacac	caattagacc	caaggatcag	ttggaagttt	ccaggacatc
121	ttcattttat	ttccaccctc	aatccacatt	tccagatgtc	tctgcagcaa	agcgaaattc
181	caggcaagcc	ttagggaaaa	aaggaaaaac	aaagaaaatg	aaacaattgg	cagtgaagg
241	cagaaagaga	agatggagcc	cttagagaag	ggagtatccc	tgagtaggtg	gggaaaaggg
301	gaggagaagg	ggaggaggag	aggaggagga	aagcaggcct	gtccctttaa	gggggttggc
361	tgtcaatcag	aaagcccttt	tcattgcagg	agaagaggac	aaagatactc	agagagaaaa
421	agtaaaagac	cgaagaagga	ggctggagag	accaggatcc	ttccagctga	acaaagtcag
481	ccacaaagca	gactagccag	ccggctacaa	ttggagtcag	agtcccaaag	acatgggtaa
541	gtttcaaaaa	ctttagcatt	gaagattcaa	gaggacacag	g	

B.

1	ctgctttcag	agcctgtgac	ttcttgtgtg	cctctcctgt	ttctcagcaa	catggcatag
61	ggcctgggat	accaggctctg	gggatctcag	ggactcttag	cactttaaga	cacatgtgtt
121	cccaggccct	gggtgtgttc	tctagtgcc	gaaagatgtt	tcatgctttg	ctgactttgt
181	ataaagtctg	tttgtagctg	ttttgacaga	atctcagcgt	ataactgagg	gtggggacat
241	tagccaagct	gcattatagg	aggacaaaac	tgccatacaa	agtgtccaaa	atcattaagc
301	ctgcattttt	attattggga	gtaatatcaa	acctcctatt	ttccaatttt	catttcttgt
361	cctgtgctag	ctccatcctg	tttggactgc	tcctcccata	tgtaaaactaa	gaagaatcaa
421	gcattctttg	caacaaatac	acacgatgct	caaaaatgtc	caggagcatc	caatttccaa
481	agtttcctcc	acctggaatg	ctcttcacgc	taaaatcctg	tctgacaata	ccagcatctc
541	tggcctgcac	tcaccccttc	ctggaaactc	aagtgcattt	acctctgttt	accacttact
601	tggctgcctg	aattgttagt	tgaaaatatt	aggtctactt	agctaattct	tcctcaggaa
661	attaaagact	cccatatggc	agagtctgtg	tcttttctct	cttcatatcc	cgtataaacac
721	ccagcataat	gctgggcata	tagtgagtat	tccataaata	gttgatgaat	gactaaaata
781	agcaagcaaa	caaacagact	agaacaataa	gaaagaagg	actggatttc	ataatctctc
841	tggcttgcta	tttgaattgc	tgaattatta	ttatttatta	aatatttttt	aaattctggc
901	aataaaaagg	aaggatttat	tttctttctt	tctttttttt	tttcttgaga	cagagtctcg
961	ctcttactgc	ccaggctgga	gtacaatggc	gcaatccttg	ctcacggcaa	cctccgcctc
1021	ctcctgggtt	taacagattc	tcctgtctca	gcctcctgag	tagctgggat	tacaggcata
1081	cgcccatgcc	cggctaattt	ttgtattttt	agtagagacg	gggttttgcc	atgttggcca
1141	ggctggtctt	gaactcctga	cctcatgtga	tccacctgcc	tcagcctccc	aaagtgtctg
1201	gattacaggc	atgcgccacc	gtgcccgcc	aaagatttat	tttcaagaat	gaaacaaagt
1261	aaggattctg	ggtcaatctc	acatgctgaa	agccaaaacc	tctagccgct	cctgcttttt
1321	gacttcggag	tgcccaactat	ctccgagcct	gtgagcacag	ggcctggcag	aggggtttga
1381	gtggcatgag	ctacctactg	gatgtgcctg	actgtttccc	cttcttcttc	cccaggcttg
1441	ttagagtgtg	gtgcaagatg	tctggtagg	gccccctttg	cttcccttgt	ggccactgga
1501	ttgtgtttct	ttgggtgggc	actgttctgt	ggctgtggac	atgaagccct	cactggcaca
1561	gaaaagctaa	ttgagaccta	tttctccaaa	aactaccaag	actatgagta	tctcatcaat
1621	gtgtaagtac	ctgccctccc	acacagaccc	atcttttttt	tcctctctc	catcctggag
1681	atagagaact	cttcagtacc	ttagtaacta	gcaggggact	gggggtggagc	cagaccggat
1741	tcccagagtct	tcctctgtg	ca			

FIGS. 11A-B

C.

1	ctagaaaatc	cctagccttg	ttaaggtgct	cgctctgggtg	tatacctcac	ttatgtcggg
61	aaagaagcca	ggctctcaat	taataagatt	ccctgggtctc	gtttgtctac	ctgttaatgc
121	aggatccatg	ccttccagta	tgtcatctat	ggaactgcct	ctttcttctt	cctttatggg
181	gccctcctgc	tggtcgaggg	cttctacacc	accggcgag	tcaggcagat	ctttggcgac
241	tacaagacca	ccatctgcgg	caagggcctg	agcgcaacgg	taacaggggg	ccagaagggg
301	aggggttcca	gaggccaaca	tcaagctcat	tctttggagc	gggtgtgtca	ttgtttggga
361	aaatggctag	gacatcccga	caaggtgatc	atcctcagga	ttttgtggca	ataacaaggg
421	gtgggggaaa	attgggcgcg	agtctgtggc	ctcgccccca	cccaaggctg	ggctcctctc
481	aggggcctgg	catttgagtg	aggaagcgat	ggctgcagcc	gaacgagaag	gtcaggaaga
541	acgtggtgcc	cagctggctt	agcctcacct	ttcaaagggt	ccctaagcaa	atctcttctc
601	aaaacagaaa	gcctgagttt	tgtgggactg	ttgtacaat	cagaccattt	cagaccattc
661	tggttggtatc	cctttgttcc	cttccctagta	ggtagccaaa	gagtggatct	aactggacaa
721	gagtctaaaa	tgctgctcat	gtgattgaga	cttgggcacc	tgagctraga	gggaggatgg
781	ataataaaaa	ttaataata	actccaaggt	aaatttacia	tgttctgg	

D.

1	gacccctctc	attcttcccc	tacccattcc	ccccaccctc	cggtatactg	gggccagtta
61	tctagtagat	actgccaatt	acccttggca	gaggtgccct	gctcactaat	tttatttggg
121	ggagmgccct	ggaacctggt	tttaatgtct	ggcacacgcc	acttccagga	tctcccagtt
181	tgtgtttcta	catctgcagg	ctgatgctga	tttctaacca	acccatgtca	atcattttag
241	tttgtgggca	tcacctatgc	cctgaccgtt	gtgtggctcc	tggtgtttgc	ctgctctgct
301	gtgcctgtgt	acatttactt	caacacctgg	accacctgcc	agtctattgc	cttccccagc
361	aagacctctg	ccagtatagg	cagtctctgt	gctgatgcca	gaatgtatgg	tgagtttaggg
421	tacgggtgct	ttggctctcc	taccactat	ggaagcacta	tattttgggt	tattttctta
481	gtgtaaggag	ggtggtgatt	atgagaaaaa	tataagatga	tgaatgattg	ggtcttagtt
541	tattaatcct	tccctactga	aaccagagag	gtttcttccc	ccggaaggga	acttgggaagt
601	ggtgggagtt	ttcttggcca	ttcacattgg	cctactctag	ttgactgctg	ttcacaaccc
661	caaagcagca	catttcaata	acaaacacaa	ggttdsacca	ctgttcaata	ccaccttctc
721	ttttttgtaa	acctgtagaa	aagaggatcc	taattgttgg	tagmatccaa	mtttacagcc
781	aggataatta	gagatggaag	aagggtctctg	ggggaaagtc	tccatgtggc	cccgtaactc
841	cataaagctt	accctgcttg	ctttttgtgt	cttacttagg	tgttctccca	tggaaatgctt
901	tccctggcaa	ggtttgtggc	tccaaccttc	tgtccatctg	caaaacagct	gaggtgagtg
961	ggttatattg	gttatattac	aaggagtag	ctaataccat	acaaattaca	cccatggcct
1021	tcaattttta	ggactgaaa	tttccctttg	ctggattttg	aattagccga	ttgccttcta
1081	caacatggtg	gctaagtgtg	cctgagccaa	tgagcataga	aggtaaaaca	cctcttttct

E.

1	aattagcaca	cagaaaggat	atccaacaca	tacaaagctg	tnntcatgga	ctacactgga
61	gcatattact	gctgttgcaa	gaaacatttc	ttcttctctc	tttcattttc	ctgcagttcc
121	aaatgacctt	ccacctgttt	attgctgcat	ttgtgggggc	tgcagctaca	ctgggttccc
181	tggtgagttg	actttgaatg	atcttggcaa	gtaaataggc	ctgagatagt	tgtgggtaca
241	gctattctga	aaggcaagaa	ggtagactgc	ttccatcctt	gaaatgctgg	aggga

FIGS. 11C-E

F.

1	aattctatat	actatcacta	tggtccact	ttggatactc	tccagtggat	ttagttactc
61	atatggaaat	acctgggagg	acctcctaac	attattagaa	ttgttatgat	tataatacaa
121	ygctatgtcc	caggtccttg	tgatagtgtc	acagtgcct	gtgaatgtag	tgtgtcatt
181	gtgcagatta	aaaacctaag	gcactgaagg	gtgaagtgt	ttatctgaag	ttatcttata
241	aagcagtgt	cagacaasct	gagctcacag	aactccctgg	cccctactgc	tgaggtttcc
301	atacagagtc	aagtaatttc	tcaccttgta	aaacgaattg	attcattaac	caggggagag
361	ctctactgca	tgatgtggct	gtgtgtctac	agcaagcacc	ctatgactct	aagtcactcg
421	gacatattga	tgtggcaaag	cccaaattatt	gttcacttcc	ctgaggaaaa	ctcagtgtca
481	gatcaaacag	aggtgtggaa	taaatcttta	tgatttgatt	ctctgggct	gggcatgag
541	acccatgatg	cctcagagac	atcggacttc	cagtcaagt	tatatggaga	aagccaagcc
601	tgggatgtac	tgctttttgc	agagcatggg	ttttccctt	atttagttat	gattttattt
661	ctacccttcc	tcattcccaa	agggatttga	ggagggagtg	ctttcttttc	tactctcatt
721	cacattctct	cttctgttcc	ctacagctca	ccttcattgt	tgctgccact	tacaactttg
781	ccgtccttaa	actcatgggc	cgaggcacca	agttctgac	ccccgtagaa	atcccccttt
841	ctctaatagc	gaggctctaa	ccacacagcc	tacaatgctg	cgtctcccat	cttaactctt
901	tgcccttgcc	accaactggc	cctcttctta	cttgatgagt	gtaacaagaa	aggagagtct
961	tgcatgtatt	aaggtctctc	tttgactct	cccctcttat	gtacctcttt	tagtcatttt
1021	gcttcatagc	tggttccctg	tagaaatggg	aaatgcctaa	taatatgact	tcccaactgc
1081	aagtcacaaa	ggaatggagg	ctctaattga	atcttcaagc	atctcctgag	gacagaaaag
1141	taattttctc	tcaaagggtta	cttcactga	tggaaacaaa	gtggaaggaa	agatgctcag
1201	gtacagagaa	ggaatgtctt	tggtcctctt	gccatctata	ggggccaaat	atattctctt
1261	tggtgtacaa	aatggaattc	attctgcgtc	tctctattac	actgaagata	gaagaaaaaa
1321	gaatgtcaga	aaaacaataa	gagcgtttgc	ccaatctgc	ctattgcagc	tgggagaagg
1381	gggtcaaagc	aaggatcttt	caccacagaa	aagagagcac	tgaccccgat	ggcgatggac
1441	tactgaagcc	ctaactcagc	caaccttact	tacagcataa	gggagcgtag	aatctgtgta
1501	gcgaagggg	gcactctggc	ttcacctctg	tacgggaaga	gaaacagggg	cttgtcagca
1561	tcttctcact	cccttctcct	tgatacacgc	taccatgaca	accctgtggt	ttccaaggag
1621	ctgagaatag	aaggaaacta	gcttacatga	gaacagactg	gcctgaggag	cagcagttgc
1681	tggtggctaa	tggtgtaacc	tgagatggcc	ctctggtaga	cacaggatag	ataactcttt
1741	ggatagcatg	tctttttttc	tggttaattag	ttgtgtactc	tggcctctgt	catatcttca
1801	caatggtgct	catttcatgg	ggtattatcc	attcagtcac	cgtaggtgat	ttgaaggctc
1861	tgatttgttt	tagaatgatg	cacatttcat	gtattccagt	ttgtttatta	cttatttggg
1921	gttgcacag	aaatgtctgg	agaataattc	tttgattatg	actgtttttt	aaactaggaa
1981	aattggacat	taagcatcac	aaatgatatt	aaaaattggc	tagttgaatc	tattgggatt
2041	ttctacaagt	attctgcctt	tgcagaaaca	gatttgggtga	atttgaatct	caatttgagt
2101	aatctgatcg	ttctttctag	ctaattggaaa	atgattttac	ttagcaatgt	tatcttgggtg
2161	tgtaagagt	taggttttaac	ataaagggtta	ttttctcctg	atatagatca	cataacagaa
2221	tgaccagtc	atcagctatt	cagttggtaa	gcttccagtc	atcagctatt	cagttggtaa
2281	gcttcccagg	aaaaaggaca	ggcagaaaga	gtttgagacc	tgaatagctc	ccagatttca
2341	gtcttttaat	gtttttgtta	actttgggtt	aaaaaaaaaa	aaagtctgat	tggttttaat
2401	tgaaggaaag	atttgtacta	cagttctttt	gttgtaaaga	gttggtgtgt	tcttttcccc
2461	caaagtgggt	tcagcaatat	ttaaggagat	gtaagagctt	tacaaaaaga	cacttgatac
2521	ttgttttcaa	accagtatac	aagataagct	tccaggctgc	atagaaggag	gagagggaaa
2581	atgttttgta	agaaaccaat	caagataaag	gacagtgaag	taatccgtac	cttgtgtttt
2641	gttttgattt	aataacataa	caaataacca	acccttccct	gaaaacctca	catgcataca
2701	tacacatata	tacacacaca	aagagagtta	atcaactgaa	agtgttccct	catttctgat
2761	atagaattgc	aatttttaaca	cacataaagg	ataaactttt	agaacttat	cttacaaagt
2821	gtattttata	aaattaaaga	aaataaaatt	aagaatgttc	tcaatcaaac	atcgtgtcct
2881	ttgagtgaat	tgttctattt	gacttcacaa	tagaaactta	ataatcgtac	cttctcaaga

FIG. 11F

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1  atggaaatgt tctgtatttg tgttgtctga tgagataacc actaactgta gtgctattga
61 gcatttgaaa catggctagt gtaatcaatg aaccaaattt ttaattttat ttaattgtaa
121 ttaattttaa gtggccacat gcagggagtg actgctgcat tggacagcac ggctctaaat
181 tgagcctttt ttccttattt ggtgaggcat actgacctta agattgggaa gtctattttt
241 ggaacctgct accaatgctg gtctcacact tgcaattctc agctgagcca agaggtgaga
301 gaaaggatcat tttccattcc aagatctcac tctccctgtg gacactgagg aaactggcaa
361 gtgatgtgaa ggctggagag cgtgtcctgt atgctggctc tgtcccttct gcctgtgttg
421 actgacatag ttagttgctg cccttgctgg tctcccttcc tccaaccttg cctctctgag
481 cacacctgac attcatctca tgacttccct aaaaacattc tttgggaaca agaaactaac
541 aaatcccaag tgacctatca catatacaaa catacagggc agagtttgga ttcgcggtag
601 aagaaaggga ggtagacat taagaagaat ggtctggtga tgacagttgt gagataatag
661 aaacaggaaa aagaaatcta agttttcttt ctttttttaa gaaccaataa taatttctct
721 cttttgacta gtcagttagg ctgggtgga ttggaggaaag cttacatatt ccatgaacca
781 gcctcttctc aaggctctgt aagtgtcctt gccccactga ttagccctta gaagaccctt
841 caaagggttg atctccagga gggagtgggg gaggaagacc ctgtaccagg cagcctctgc
901 tccattgctc tgggggggtg gggagacaaa accctggtca tcccctcagt ctgtagccct
961 tttgtgtgag tgcctggcaa gggtgacgtg gggctgttcc tgccgggcaca gctgcagcaa
1021 ttaccggagt ggaggcaggg cccaggcagc actgccctcc aagatcttcc cttgggcttt
1081 tcagcagtaa ggggacatgc accccaaggg cctccacttg gcctgacctt gctgcggggg
1141 ctctctgtcc ttcctctctc tctcctctct ccaagtgtct tccagctatg caggtaaagac
1201 cctctgtctc ttcctctctc tctcctctct ccaagtgtct tccagctatg caggtaaagac
1261 atgttttttt tcttgccctg gggagaccct gaaaacagaa aggctagttt cctgggggtt
1321 agctccttca aacatcctca agtttggtata ttatctttct aaaacataga cctactgaca
1381 tgccctccct cctcagaaac ctcccggtgg ttggtctttac agccttcaag atggagtcca
1441 gactcttttt tttttttggg acagagtctc cctctgttgc tcaggctgga gtgcagtggc
1501 atgatctcgg ctcaactgcaa cctcagcctc cctgggttcaa gcgattctcc tgacttggcc
1561 tcccaagtag cggagactac aggcgcctgc caccacaccc agctaaattt gttcttttct
1621 ttcttttttt ttttttttgg gatttttaga cagacggggt ttcacatgtt ggccaggatg
1681 gtctcgatct cttgacctgc tgaatccgcc gcctcagctt cccaaagtac tgggattatg
1741 ggcgtgagcc actgcactag gcctaatttt tttattttta gtagagatgg gggttcacca
1801 tgttggccag gctgggtctg aaccctgtac ctcaagtggg ctgcccctct cagcctccca
1861 aagttctgag attacaggca tgagccattg cgtctgacct agactcctta atgtgactaa
1921 ctccaggctt tccttggaact acttcttact tgtctttcca gctttgtctt ttcacctctc
1981 caattgagat aaaataataa caacctcttg gagttctcat caggattaca tgaaatgaga
2041 tatgtaacat gcttagcagt gcctgtccat agtaaatctc aataaatgtt tgtggaatta
2101 taatatcttg tcatgtttga gactttgctc tgcataatca ggcaccagta gggttttata
2161 aaggaaaccg tctgtcacgt gcagaggaga aataaacaga aagtttccca tcctcaggga
2221 gccacctgac tgacagaggc acagtgcac cactctccag gtctagggga gaaagcagcc
2281 ttatttctta gtagctcaga atctgacttg agaaacacat ccacatagaa aaaaacaagg
2341 aacttttttc ggtcagggtc cgggacccac agtgagggtg aagatacagg ggaaggaaga
2401 gggaaataga gccatcccca ggggtggaaga tctcagaaga gaatttgga aacaaggat
2461 gaacaaggac tgaatagtga gaagtgtgga agagacagct aaagtagatg gagtgtcaaa
2521 accaaaaacct ctaagggtag aataggcagc aatttgcca agtcctaaca gggaggccca
2581 taggaggatt caacctcaag atgctgtgcc acattccaag agggaaacct aaggctgggc
2641 tgaagagtca gagatggcta cagctggcaa aaagatgggc agatgctgag aggagatgat
2701 tgctaaaatg ttctgtccag gacattcaca gtatctctat aaccagagtc tttttgtctg
2761 ttgttgttct caagaaggaa acttgaggcc ggggtgtggt gtttatgccc ataatccca
2821 cgctttgggg ccaaggcagg cggatcacct gaggtcagga gttcgagacc agcctggcca
2881 acagtgtgaa acctcatctt tactaaaaat acaaaaatta gctggatgag gcggtaggtg
2941 cctgtaatgc cagctactcg ggaggctgag gcaggagaat cacttgaacc tgggaggcgg
3001 aggttgacag gaggcggagg ttgcagttag ccaagattgc accactgcac tccagcctgg

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FIG. 12

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3061 gcgacagaga gtaagactgt ctcaaaaaat aaatgaataa ataaaaagga agaagaagaa
3121 gaagaacaat tgcaatcctc cctggctcta gaatgtcatt taaaagtcca gtgtcttctt
3181 ccttccctgt tttgaagcag cccttctcat gacaggcttg cttgccaagg ttccctctga
3241 ccttaaatct cttccttttg gtgtcttggg cagggcagtt cagagtata ggaccaagac
3301 accctatccg ggctctgggc ggggatgaag tgggaattgcc atgtcgcata tctcctggga
3361 agaacgctac aggcattggag gtgggggtgt accgcccccc cttctctagg gtggttcac
3421 tctacagaaa tggcaaggac caagatggag accaggcacc tgaatatcgg ggcgggacag
3481 agctgctgaa agatgctatt ggtgagggaa aggtgactct caggatccgg aatgtaagg
3541 tctcagatga aggaggtttc acctgcttct tccgagatca ttcttaccaa gaggaggcag
3601 caatggaatt gaaagtagaa ggtgagtagt gccatataat attaggtatt aactgttggg
3661 tggccaagaa caattattct ctcaactgag atgagatccc tcaacccaaa catctcagtc
3721 ctgggaatga tttccataaa aatgtacaca tcaataaaca gaaactcatg cttagggatg
3781 tctgttgcatt cattattcag agtagcaagg aaattgggat caaaatcaat gcctttgagt
3841 aggtaatgta cagaatgaac aatggtagcc atactgtgaa tattatgcag ggattaaaaa
3901 gattatttta gcaactaggcc agatggtttg gggggctcct ctaaggtatt attgagtgat
3961 aagagcaagc tgctgtagga tacaataaaca aaaacaaaac cctagggcat ggtggtttgc
4021 ctgcagctca ctgaggaggc tgagacggga ggctggcttg agcccagggg tttgcagtta
4081 cagtgcagta tgattgcacc actgcactcc aacccgggtg acagagcaaa gaccttcacc
4141 cccactccct acccgctctc aaaaaaaaaca aaaacaaaaa caaaaaaac cttgggcccc
4201 gcgccgtggc tcacgcctgt aatcccagca ctgtgggagg ccgaggtggg cagatcacia
4261 ggtcaggaga tcgagaccat cctggctaaa acggtgaaac cccgtctcta ctaaaaatac
4321 aaaaaaaaaa aaaaaattta gccaggcatg gtagcaggcg cctgtagtcc cagctactcg
4381 ggaggctgag gcaggagaat ggctgaacc cgggaagcgg ggttgacgtg agccaaaatc
4441 cttccactgc actccagcat gggggacaca gcgagactcc gtctcaaaaa aaaaaaaaaa
4501 accctgtatt tgtgagcgca cacacacaca cacacctgtg cttgggtcta gttggtctta
4561 gtgaataagc aagtaaatca aatgtctaaa tataattata gaaaggagat gtcacctttt
4621 ggctgtacct ccactatttc attctgcaga attgcagaat ttcttttttt tttcctttct
4681 ttctttttct tttttttttg acacagagtc tcgctctgta acccaggctg gagtgcattg
4741 gcgccctccg cctcctgggt tcaagtgtt ctccctgcctc agcctcccga gtagctggga
4801 ttacagggtg ccaccaccac acccagctaa tttttgtatt tttagtagag acaggggttc
4861 accaggttgt caaggttggt ctcaaacctc tgacctcagg tgatccactc gcctcagact
4921 cccaaagtgc tgggattaca ggcatgagcc atggtgcccg gcctcagaat ttcattttca
4981 acatgttttg catgatgggt gattttggag aatatttttt gctctatcgc aggatgatta
5041 agatgtggac aaggtgaagc cgatggaggg ggagctttga aagttacttg ctattttaatt
5101 gaggaactaa actgctttga gagcctgggg gtcagatcct ctgccttttc ctccctccca
5161 cctgcagtgc aaacatcaga caattgatca ctattgtatc ttggaggtgg gagtaccat
5221 tgcagtgtg ggaccagaag atggcattgt atgtggaaca acaaagcact atttctagag
5281 actgcctgca gggatatgga aatagcttta tgtgtctcag aatgttcttc atacagctgt
5341 ttttattggg gaaattctac ttgccgaaaa gtttgatagt gagacctctc ccagtttgca
5401 gatttttctc cttcctgtct aacaacttcc tagctcagta actgcctctc ccaacaaact
5461 ccctcagttt caccacacca aaaaaggaag acaagccggt tgcggtgggt cacacctata
5521 atcccaaac tttgggaggc cgaggcgggt ggatccacct gaggtcggga gttcgagact
5581 agcctgacca acatggagaa accctgtctc tactaaaaac acaaaattag cctggcgtgg
5641 tggcgcatte ctgtaatccc agctgggagg ctgaggcagg agaatcgctt gaaccccgga
5701 ggcggaggtt gcagtgcagg aagatcgctt cattacactc cagtctgggc aagaaaagtg
5761 gaactccatc tccaaaaaaa aaaaaaaaac aacaaggaag acaaaaagaa aagcagctaa
5821 agactttgcc tcaggggaga aagtctctct ttgggttgct atccacatc caacctctg
5881 ttccacctc tcgtctgca tgcttaagaa actgttttac aagtaaataa gggacgcttt
5941 gtctaggctt tggagccagg aagttgagac aaatttagga atgagatgaa gtaatggtat
6001 tattgcaagt ctgaggtgta actacctctg ctctttctct gaagagtttc taatttctct
6061 tgtttactta tttttttctt gtcatttttg ggattttatt actagttgtc tctaactcct

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FIG. 12 (cont.)

6121 tcttttaaatt cttcattatg aaacataaaa acaaatgcc a ggcgcggcag ctcacgcctg
 6181 taatcccagc actttgggag gccgaagcgg gcagatcacc cgggtcagga gttcgagacc
 6241 agcctgatca acatggagaa accccgtctc tactaaaaaa tacaaaatta gctaggcgtg
 6301 gtggcacatg ccagtaatcc cagctacttg agagactgag gcaggagaat cgcttgaacc
 6361 gggaggcaga ggttgcggtg agccaagatc gcgccattgc actccagcct gggcaacaag
 6421 agcaaaactc tgtctcaaaa aaaaaaaacc acatacaaac cagagataat attataatga
 6481 gcctccaagt gcctaccacc ttgctgcagc acttgctaat ccagggaacca cccacctcac
 6541 cggctcccca ctcattacca cctccccccta ctcaattact gaggtaaatc ctaggcagca
 6601 tgatcatttc ttttttttct ttttatttat tttgagacag gatctgtctc tgtcaccag
 6661 gctggagtgt agtggcatat ctctgctcac tgcagcctct gcctcccggt cagaagccat
 6721 cctcccacct cagcctacat agtagctggg accacaggca cacaccacca cacactgcta
 6781 atgtttttgta ttttttgtag agactgggtt ttaccatggt gatcaggctg gtctcaact
 6841 cctaggctca agcaatcctc ccacctcggc ctcccaaagt gctagaatta caggcgcgag
 6901 ccaactgcacc cagcgaagaa cactttttta aaaataaata ggccggggcg ggtggctcac
 6961 acctgtaatc ccagtaactt gggagcccaa ggaggcgaa tcatgagggt aagagattga
 7021 gaccatccta agtaacatgg tgaaacccca tttctactac aaatacaaaa acaaaattag
 7081 cctggcggtg ttggcaggcg ctgtagtccc agctacttgg gagctgaggc aggagaatgg
 7141 agtgaacccg ggaggcgag cttgcagtga gctgagatca tgccactgca ctccccctg
 7201 gggcaacaga gtgagactcc caaaaaaa aaaaaaagcc cccctcccc acacacaata
 7261 atataaataa ataaataacc acaatactat tatcacatct tacaactca aaaaaattt
 7321 cttaatatca tcaaatcccc agtttgtgtt caaattttcc tgattgtttc ataatatac
 7381 tcttacagtt ggtttctttt agcgagattc aaatgagacc cacctgttga cctttgcct
 7441 tagggtttcc cagggctctga attttgttga cgacattccc atgttgctat gtaatacgg
 7501 cctccatgcc ctgtgttttt ctgtaaactg atagatgtgg aggtgcaatg acatttgtg
 7561 ttgatttact ttggcaataa tagttcatca gtgatactct atacttcttg ttgctttaca
 7621 tccggagggt gataatgtct gcttttctct cttttcta at ttttgtgaa aggaaaaatg
 7681 tgggggggtg ggagaaaaaa acccttaagt acatactcg acactgcatt tcccctaggg aacacaatga
 7741 aacttccatt aagaacttga aagtaaagggt agctgcaatt atactgtaatt aaccctctg
 7801 tagacaggag ccttagtcta cagcttgaag gattgttaatt tccctacct tgatgtcatt atccttact
 7861 gaccagttaa atgttattag ctgtgatgta caagatgaaa agggcttcag ctgcagcatg gcacatggag
 7921 agctccctta aagcagagat caagatgaaa agggcttcag ctgcagcatg gcacatggag
 7981 attagagtgg ggcttttgga tgctgaggag cagacctaga atgggaaata gatgggagcc
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 8161 ttatttattt tttttttgag atggagtttt gctcttgta cccaggctgg agtgcaatgg
 8221 tgcaatctcg gctcactgca cctccaact cccaggttca tgcaattctc ctccctcagc
 8281 cttccaagta gctgggatta caggctgcac caccatgtct ggctaatttt tgaaaaatca
 8341 gtagagagag ggtttcacca tgttgccaa gccggtctcg aactcctgac ctcaagtgat
 8401 ccacccacct tggcctccca aaatgctggg attacagggt tgagccacca tgcccgtgt
 8461 aaactacctt cttaaaagct ctagaagagg gcttttaacc ttttgttgtg tgtcatgcac
 8521 cttccgcaag ctgatgaagt tgatagacct atctcagaat ttttttttt tttttgagac
 8581 agtgtctcac tctgtcacc aggattggtt gcagtggcac gatcatgggt cattgcagcc
 8641 tccacctccc aggtcaagt gatcctcctg actcagcctc ttgaatagct gagaccacag
 8701 gcttgtgtca ccatgcccag gtaattttta atttttttt gtagaggcag ggtctcacat
 8761 tatgttgccc agtctggcct cgagaactcc tgggctcaag caatcttctt gccttgggt
 8821 cccaaagtgg tgggattaca ggggagagcc accacaccta gccaggagga gtttttaaat
 8881 acccaataa aaacatttat acccaataac agttatccaa atattaaatt aacaagagt
 8941 agggtgaccc tatataattag tgtaatttcc aaatagtaat gaacataagt gatagtttga
 9001 gatttctgtg acttttctaa tgtgacgtga aaatatttgt gatttttctt tttcttttt
 9061 ttttttgaga tggagtttcg ctctgttgcc ccaggctgga gtgcaatggc aagatctcgg
 9121 ctcacctcaa cctccgcctc ctgggttcaa gcgattctcc tgctcagcc tcttgagtag

FIG. 12 (cont.)

9181 ctgggattac aggactgtgc caccacgtcc agctaatttt gtatttttag tagaaacagg
 9241 gtttctccat gttggtcagg ctggctctga actcccaacc tcaggcgatc cgcccgcctc
 9301 ggccctccaa agtgctggga ttacaggtgt gagccaccgc acctggccaa tatttgtgat
 9361 ttttattgac gacaaagtca aaggttctct tcatattatt gtgggtgtatc gcctacaagc
 9421 ataattaaaa taaacactaa atttcagttt aaagtttact gaaaataaat atgtattttt
 9481 tattccctat ttaagctttg aatcccctga ctctctatac cattaccact gtcctagttc
 9541 aggttcatgt tgttttttac ttttaattgtt atcacagttc cttaacattt ctcctatgt
 9601 tctccagttc tgtaggtgct aaatctgacg tggctacttc tcagcttggga atccttcagt
 9661 gcaccaccac agccttgaac tacatatttg aaatacatat ttattttcag taaactttaa
 9721 actgaaattt agtgtttatt ttaattatgc ttgtaggcga tacaccacaa taatatgaag
 9781 agaacctttg actttgtcgt caataaaaaag tcccttgagg ggacttcaga tgtaagtccc
 9841 ttagctgtct gttaaaactc ccccgaggtg acccaataca caatcttgac ctttctttaa
 9901 ttgtcattct aatcactag catttctgg aaaaaaagc catttttctt tcagggtctaa
 9961 gctcaggggac caattctgtg tcacotttctt tgaatcctga tgatattcac ttctttattt
 10021 gacctgattt attgggcccc agacaccatg ctgagtggtg gggattcagc tctggacaat
 10081 gtcaaatgtc agtcctgcct ttcagatcct ttctactggg tgagccctgg agtgctggtt
 10141 ctccctcgcg tgcctgctgt gctcctcctg cagatcactc ttggcctcgt cttcctctgc
 10201 ctgcagtaca gactgagagg tacagggcag aggggtgggt gatcaggatc ctttctttaa
 10261 atgagctggc ttcttggagc tacaccactt aacatgtatt tgtgagtgac ttctgggttc
 10321 agaagttctt ctcactattg agtgataaag aaaaaaata actccatgat gaaagagttt
 10381 tacatcttac ggaatgcttt catatgaata atcggaccta gcatttccct atgagctaac
 10441 tatgccatat agtaacccca ttttacagag gatacaactg aggccaggag tagttcagt
 10501 acttactcaa accgatataa cttataagtg gtagagctga ggcctctgta tcatacctag
 10561 cagctccatg caacttggga gagtgtgagc ttccaagtca gacaggtcta gctatttagg
 10621 agttttgaat aaagatactg aagtgaagt ctctaccaca cagtaggcgt tcgaaaattg
 10681 tttcctcttt ctccattcaa cactgaggac tcagggttcag ctgctgatga agctcctctt
 10741 ttttgcctag agctttcatt ctgagccttc tctcctacc aagtgtctcc ccaatgccag
 10801 agcaggaaga gtcttcactc ctcccaatgc cccacctccc atttgttact aagaggagag
 10861 gagaaagtag caaggagggt atgggggaatg ttctggggga atgggtgttg gtgcgatcaa
 10921 caacaaagtc ctttctctca ccttgaattc atcccagatg cctgcttgtt tacttcttcc
 10981 acacaaaaaa aggccttcag cctcatggc tgagcagaaa gaatctgaat gttagagtca
 11041 ggagcctgg gtttgaattc catctcaggt actgaactct atagcaaaat tcttagattc
 11101 tccaagcttc agttgccttg tctgtcaa atagaaaaa tccttcgtcc taaattgtag
 11161 ggaggattaa agtcatgcaa agtgccctact acaaatccag tcacaaagta gctagctact
 11221 cactaaatgt tcagctcctc cctcctcatt cagatgggaa gtggctttag ataaacaaag
 11281 tggcaacgca gtgggctgga gcagctctgt gaactgagaa tccaagaaaa ggggcgaaga
 11341 gcagctggga tgtattggat gcttgtgctg gcttggagca ttgctcacat tctttattcg
 11401 ctattgtatc tagactatag ctagagaaag agccgcaacc attggcttta aatccagtgc
 11461 tcttctact ctctgaggt tgtttccagg ctgcagagaa atagcctgca caaggggccc
 11521 aggcgctggg tgtgggagggt tccccaccga gagccagaa atgcaggaa taaaatgttg
 11581 cctttttcta ttttaggaaa acttcagaca gagatagggt agttccagtc atcgtttctc
 11641 ccaattcttg ccttttggtt ttttggcata acggaaatgg tccattctt ggaccgtctc
 11701 tccctctcaa taccctggtt tccctcagt tccctttct ctacagtggg tgtgtcgtgc
 11761 ctagaacaag ttttaagtaa ttaaataaca aagactcagg ataaaaggat cctttttgga
 11821 gtgccctact aaatccattt ccatttggtt ctctttcaga gaatctccac cggacttttg
 11881 gtaagttccg gcatgtctag gccctcccag gtcaacttgg tatttcactc tagttccagt
 11941 cacctggggg aacaaggacc cctggctcct ggttgagtc ctctctctct tctctttct
 12001 ttcttttaaat aagaagtc atgtgatttag gattggtaaa atcataataa aaatactcat
 12061 gtactgtttt tatgtgccag gcactattct aactacttta caaaaacgtt atcttattct
 12121 gtttaactcc ttatgcacat gatctctct ttcagggaatg ccaaacagaa ggtaaataga
 12181 tcgtttacac gtaaacctga tgtctgggtg gggaggtgaa acaaacagaa acaagacaca

FIG. 12 (cont.)

12241 actgtatcac ctgtacttat atttctgctt tacaaactca ggatgtttcc atgagtacag
 12301 aacatgacta atcagagaag acctcataga ggaatagaaa agccaccaag cccactagg
 12361 aattgacccc tcaaggacat ggtttctagc ctttttggtc actgcagatt gcccaatgcc
 12421 taaagataat ggcaacagaa gagcacccaa atatttggtt gataaatggt gcagacacta
 12481 gaaggtgtca ttagggcaca gatggtacct tctctgagca aacttccttc acagctcctc
 12541 ctcccagggc tgtaggtgac tctactcttg tcacctggca cacagagttc tatcgtacga
 12601 tttaggaat tagaccagt tgtggaccac acacacacac atctttacac acccaaagag
 12661 gaggaatagt atctttgttt tggaggactt gactatgaaa ggtcttaact ccttttgta
 12721 ccatgaatct ctctggcact ccagtgaagt ctaaaggacc cctttgcaga atgtttttaa
 12781 atatacacat aaaatagaac acataggatt gcaaaaacaa tcattgtact aaaatacagt
 12841 tatcaaccga taatcacatt tgtgatatag taacataaat gtttcttttt ttttttttg
 12901 gaggcagagt ttggctcttg tcacccaggc tggagtgcaa tggcgcgcatc taggctcact
 12961 gaaacctctg cctcccgggt tcaagcgatt ctgagcctcc tgagttagctg ggattacagg
 13021 tgcccggcac cacacccagc taatttttgt atttttagta gagactaggt ttcaccagg
 13081 tggccaggct ggccctcgaac tcctgacctc aggtgatcca cctgccttgg cctcccaaag
 13141 tgctgggatt acgggcatga gccaccgtgc ccggccataa atatttcttt agccaaagta
 13201 atacattaag taatgtagca gcaagtctaa taacctgtaa tttctttctt tctttctttc
 13261 tttctttttt tttgagatga agtttttttg agatggagtg caatggcaca atctcggtc
 13321 actgcaacct ccacctcctg ggttcaagcg atttctctgc ctgagcctcc caagttgctg
 13381 gaactacagg cgcattgccac catgcccagc taatttttgt atttttagta gagacgggt
 13441 ttaccatgt tggccaggct ggtcttgaac ccctgacctc aggtgatctg cctgccttgg
 13501 ccttccaaag tgctgggatt acaggcatga gccaccaggc ccagcccaat aacctttaat
 13561 ttcaacatac taataaacat aaacagtatt tcaagatttc tgcaataact ctaatgggaa
 13621 tgaaaacatc tgtggcttcc attggttaatt aagtcacagg tactgctcat attgtggtta
 13681 gttgtaaaaa gttttggttt gttttggttt ttccaagact tgggggaatg ggtgttggtg
 13741 ggatcaacaa catgcttgct ctgtggccca ggctggagtg caggggcagg atcttggtc
 13801 actgcaacct ccgcctccca ggttcaagcg atttctctgc ctgagcctcc tgagttagctg
 13861 gcattacagg catgtgccac cagcccagc taatttttac atttttagta gagatgggt
 13921 ttaccatgt tggcctggct ggtcttgaac tcttggcctc atgatccacc cgtctcggac
 13981 tcccagagtg ttgggattac aggcattgagc caccacacct ggcagttgtt acatttttaa
 14041 tgaaagaaaa tghtaaatcc agttattgaa aataaggagg cagtactttt ctcatccaag
 14101 ttctggact ttctgaattt gtccccaga gtccttttgt gttctaggac cccaggttaa
 14161 ggaacccaaa aagacagggtg ggtggggcat gagggggaac acatgttaat ccctgtttgt
 14221 tctggtgaac aattcagatc cccactttct gaggtgccc tgcttggatc atctgctaca actggctaca
 14281 tgtaattgtg ccggttcttg gacccttggg tggctgggca gcaggcaaga ccaccaataa gtgggggacc
 14341 tcgaagacta gcagggtcag tgaatgggaa gccaaaagag aatagaacca ggactcaaga ttatgggagc
 14401 aagtcagctc ttattcctct tgccttgcac ccaacccag gctcttctga gaaactgtga
 14461 tgggatttcc ttactggatc tgtgggatcc cccagtggaa agggcagtggt gggctactcc
 14521 agagaaccac aaatgtccat agggaggatg tggggaaggt gctattcatc ttccactaat cacatatttg
 14581 aaatgtccat ttttcagggc aattccttga agagctacgt aagttctctt ctctctgta
 14641 tttctttttg taagcagaga ataaaaagcc aggaaaagga gacagaagca acaagaggaa gaggcgggt
 14701 attgagggat attgagggat cacattccca gaggaagga ggagctggag agcctgggtg gagggaagac
 14761 attgagggat tctctctggg aggtagaggg caaagaagcc agctgttaga gacacattta caggtggcag
 14821 tctctctggg agaagctgga ggcactccta tctgccacct gatccattcc tcttctactg cccctaagca
 14881 ggaatccaac cctagctggg ctcatgccc attccaagc aactgcccag tgcctcacct
 14941 ggaatccaac cctagctggg ctcatgccc attccaagc aactgcccag tgcctcacct
 15001 ctcatgcaa ccattgaggc aggaatggag acaagatgac cccaagggct tttcttctcc
 15061 ctagtccaat ggttttatga tacaaactac tgacatacgt ttttcaagtt attttctcct
 15121 tctcttagga aatcccttct gatgtatgtc acatcttggc aggggtggag gagagcctgg
 15181 ttgcccaggg atttgcctt ggggacatct catccatcaa gttgcacact cactggcatc
 15241 tttgctatgg ggacattcca atttgcactt tcaggaaacac tctgaattcc aagtagaatt

FIG. 12 (cont.)

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15301 gatttccctt cttctgtcat ctaccttttc tcttcatttt cccattttta ttacccttct
15361 ttccattttt ctctccagtc ttccacctgg aagccctctc tggctaagga caggcaggtg
15421 cccctctctc catcagagga cacctgtact ggagagcaac acaggatggt ctctgccatg
15481 aactggaggc caggaatctc ctcactgaaa attacagtat ggtaactttg caaatggtgg
15541 ttgtttcttc caagactcca gccctgattg cgcaaaactg aaaggcatgt gaagggaagg
15601 aagaggaaga gtgcaaaaca ttgaagagag agctgagtga gctgaagagt gaggatatga
15661 gtagcccaa cccaaacctg gagatgggga gaaacctaca gaatactagc cagagctcct
15721 ccttgtcttg gcagcctact agggacctgg ggaagcaaaa acgaaagctg ggcaacatgc
15781 ctgctttaga atgttttctt tctacttaca catcttccac aggtctcaga atctttcctt
15841 cctctcatcc ttttctccta tctacataac tatcagagta tccactgttt attcaacaac
15901 tactacttga tggtcagaca caaacaacaa agctagggtgc taattaataa agatacaggt
15961 tttggcggg tgcgggtggt cagcctgtta atcccagcac tttgggaggc cgaggcgggc
16021 gaatcacgag gtcaggagtt caagaccagc ctggccaaca tggtgaaacc ccatctctac
16081 taaaaataca aacaattaac tgagcatagt ggtgggcacc tataatacca gctactccg
16141 aggtgaggc aggagaatcg cttgaacca ggaggcagag gttgcagtga gctgagatcg
16201 cgccactgca ctctagccgg agtgacagag taagactctg tctcaaaaat aaataaataa
16261 ataaataaat aaataaatpa ataaataaaa aataataata caagttttca taagcacact
16321 tctaaccctt tgtcttttat gtatttctt ccttatccac gcacctgtct cctctactc
16381 cagcctcatt accccagagg tcagtcctca ggaaaactaa acacaaagaa agagctcagt
16441 cagaaaggcc atttatttat gtttcaagat gctcactgcc tcctttgttt tgtctcctt
16501 gcaggccttc tctcttaggc ctcttctctt gggggtatgg atcctggggg gagattgatc
16561 acctccatgc ttccattcct ccccagccat agtggggaca tcatgagaga agccaagcca
16621 ctggcccagg atcacccggc atttatggtg gctgctctgg cacaggctct tgcctttata
16681 gcccctccag tgatccataa ggccctcttt ctcccaaaag gagaggtcac agatagggca
16741 aaggtagctc ttctgcttcc agtgggtctg ctgggtgtctg accagcctgg aaaatgagct
16801 gaaagacttg ctgcaatgga agcagtagtt gggcggtctc gtgaggtggc ccttctggtg
16861 tctggagaga taggatttct tgctaaaagt caaagaacaa tgggggcaac agaagacatt
16921 gagtcttgag ggcttactg gatgagagtt ggatctggca tcctgacaga gggttccagt
16981 gatgggtgcc tgggtcctgg tcacagggtg ttggttctta agtacagatg cctgggtctg
17041 ggccatagga cctcagttc taaatatggg ttcttgggac ctggccactg gtgcatggtt
17101 cacatccaaa agccoctgga tggacctctg gcttctggcg atgggtgtct ggaattcagc
17161 ctgggtgcct ggaatcctca aagtacactc ctgggttcca tccactggct cctgggtttg
17221 gtgtatcttc tgggtggcgtt tgagctcaga ctgggtcccg aagctcttcc cacacacaga
17281 gcatgaatgg ggccggtaac ccagatggac gcggcggtga cgacttagtc cagaagcatc
17341 acagtaggtc ttgtcacaga gcgtgcaaca gaagggcctc tcccaagat gcattgctct
17401 gtgatactg agggacttgg ggctccgaaa caacttccca cactgactgc agctgttagt
17461 cagcttggga ttgtgaacaa actggtggct atagaggtag gagcgctgc tgaacattt
17521 ggcacaggtg tagcaaaa

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FIG. 12 (cont.)

1 tttgtatgtc attgcaggat tcatgctttc cagtgtgtca tctatggaac tgctcttttc
61 ttcttccttt atggggccct cctgctggct gagggcttct acaccaccgg cgctgtcagg
121 cagatctttg gcgactacaa gaccaccatc tgcggcaagg gcctgagcgc aacggtaaca
181 gggggccaga aggggagggg ttacagaggc caacatcaag ctcatctttt ggagcgggtg
241 tgtcattggt tgggaaaatg gctaggacat cccgacaagg tgatcatcct caggattttg
301 tggcaataac aagggtggg gggacaa

FIG. 13

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1  ctgtatcagt gtcctcgtc gcctcactgt acttcacgga agagacttgg ttgactggcc
61  acttgaggcg gaatcaggag acattcccaa ctgagagaga ctgagcccta gctcgcccac
121  ttgctggaca agatgatatt ccttaccacc ctgcctctgt tttggataat gatttcagct
181  tctcgagggg ggcactgggg tgcctggatg ccctcgcca tctcagcctt cgagggcacg
241  tgtgtctcca tccccgccc tttcgacttc ccggatgagc tcagaccggc tgtggtacat
301  ggcgtctggt atttcaacag tccctacccc aagaactacc cgccagtggc cttcaagtcc
361  cgcacacaag tgggtccacga gagcttccag ggccgtagcc gcctgttggg agacctgggc
421  ctacgaaact gcacctgct tctcagcacg ctgagccctg agctgggagg gaaatactat
481  ttccgaggtg acctgggcgg ctacaaccag tacaccttct cggagcacag cgtcctggac
541  atcatcaaca cccccaacat cgtggtgccc ccagaagtgg tggcaggaac ggaagtagag
601  gtcagctgca tgggtgccga caactgcccga gagctgcgcc ctgagctgag ctggctgggc
661  cagagggggc taggggagcc cactgttctg ggtcggtgc gggaggatga aggcacctgg
721  gtgcaggtgt cactgtctaca cttcgtgcct actagagagg ccaacggcca ccgtctgggc
781  tgtcaggctg ccttcccaa caccaccttg cagttcgagg gttacgccag tctggacgtc
841  aagtaccccc cgggtgattgt ggagatgaat tctctgtgg aggccattga gggctccac
901  gtcagcctgc tctgtggggc tgacagcaac ccgccaccgc tgctgacttg gatgcgggat
961  gggatggtgt tgagggaggc agttgctgag agcctgtacc tggatctgga ggaggtgacc
1021  ccagcagagg acggcatcta tgcttgccct gcagagaatg cctatggcca ggacaaccgc
1081  acggtggagc tgagcgtcat gtatgcacct tggaaagcca cagtgaatgg gacggtggtg
1141  gcggtagagg gggagacagt ctccatcctg tgttccacac agagcaacct ggacctatt
1201  ctcaccatct tcaaggagaa gcagatcctg gccacggtca tctatgagag tcagctgcag
1261  ctggaactcc ctgcagtgc gcccaggagc gatggggagt actggtgtgt agctgagaac
1321  cagtatggcc agagagccac cgccctcaac ctgtctgtgg agtttgctcc cataatcctt
1381  ctggaatcgc actgtgcagc ggccagagac accgtgcagt gcctgtgtgt ggtaaaatcc
1441  aacccggaac cctccgtggc ctttgagctg ccttcccgca acgtgactgt gaacgagaca
1501  gagagggagt ttgtgtactc agagcgcagc ggcctcctgc tcaccagcat cctcacgtc
1561  cggggtcagg cccaagccc accccgcgtc atttgtacct ccaggaacct ctacggcacc
1621  cagagcctcg agctgccttt ccaggagca caccgactga tgtgggcaa aatcgccct
1681  gtgggtgctg tggtcgcctt tgccatcctg attgccattg tctgctacat caccagaca
1741  agaagaaaaa agaacgtcac agagagcccc agcttctcag cgggagacaa cctcatgtc
1801  ctgtacagcc ccgaattccg aatctctgga gcacctgata agtatgagag tgagaagcgc
1861  ctggggtccg agaggaggct gctgggcctt aggggggaac cccagaaact ggacctcagt
1921  tattccact cagacctggg gaaacgacc accaaggaca gctacaccct gacagaggag
1981  ctggctgagt acgcagaaat ccgagtcaag tga

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FIG. 14

1 masqkrpsqr hgskylatas tmdharhgfl prhrdtgild sigrffggdr gapkrqsgkd
61 shhpartahy gslpqkshgr tqdenpvvhf fknivtprtp ppsqgkgrgl slsrfswgae
121 gqrpqfgygg rasdyksahk gfkqvdaqgt lskifklggr dsrsgspmar r

FIG. 15

1 mglleccarc lvgapfaslv atglcffgva lfcgcgheal tgtekliety fsknyqdyey
61 linvihafqy viygtasfff lygalllaeg fyttgavrqi fgdyktticg kglSATvtgg
121 qkgrgsrgqh qahslervch clgkwlgphd kityaltvw llvfacsavp vyiyfntwtt
181 cqsiafpskt sasigslcad armygvlpwn afpgkvcgsn llsicktaef qmtfhlfiaa
241 fvgaaatlvs lltfmiaaty nfavlklmgr gtkf

FIG. 16

1 maslsrpslp sclcsfllll llqvsssyag qfrvigprhp iralvgdeve lpcrispgkn
61 atgmevgwyr ppfsrvvhly rngkdqgdq apeyrgrtel lkdaigegkv tlrirnvrf
121 deggftcfr dhsyqeeaa elkvedpfyw vspgvlvlla vlpvlllqit lglvflclqy
181 rlrqklraei enlhrtfdph flrvpcwkit lfvi vplgp lvaliicynw lhrrlagqfl
241 eelrnpf

FIG. 17